

# Practice 5

For use with Section 1-5

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**Solve. Where appropriate, round decimal answers to the nearest tenth.**

1.  $2x + y = 9$   
 $x - 6y = 11$

2.  $x + y = 5$   
 $5x + 2y = 16$

3.  $x + 2y = 115$   
 $3x - y = 65$

4.  $4x - 3y = 100$   
 $2x + 5y = 225$

5.  $x - 2y = 1500$   
 $3x + 4y = 7500$

6.  $5x - 3y = 8000$   
 $7x - 6y = 8500$

7.  $3.2x + 4.5y = 8.6$   
 $1.5x - 2.2y = 1.4$

8.  $\frac{1}{2}x + \frac{3}{4}y = 12$   
 $\frac{1}{4}x - \frac{1}{5}y = 3$

9.  $0.5x + 0.25y = 7$   
 $0.625x - 0.75y = 13$

**Solve. Where appropriate, round decimal answers to the nearest tenth.**

10.  $x - 2y = 7$   
 $y + z = 1$   
 $x + y = 4$

11.  $x + 2y = 2$   
 $-y + z = 5$   
 $x + y + z = 7$

12.  $x + y - z = 6$   
 $2x - y + z = 6$   
 $3x - y - 2z = 7$

13.  $x + y + 2z = 4$   
 $x - y + z = 5$   
 $2x + z = 7$

14.  $2x + y - z = 4$   
 $x - y - z = -3$   
 $x + 2y + z = 5$

15.  $2x + y + 3z = 10$   
 $x - y - 4z = -5$   
 $-x + 3y + 2z = 7$

16.  $3x + 4y - z = 100$   
 $2x - 3y + 2z = 60$   
 $x + y + z = -10$

17.  $2x - y + 3z = 12$   
 $x + 5y - 2z = 4$   
 $6x - 2y + 4z = 3$

18.  $2x + 3y + 4z = 4$   
 $5x + y - 2z = 28$   
 $7x + 4y - 3z = 7$

19. Dolores ran a 10 km road race in 48 min. For part of the distance she sprinted at 16 km/h and for the remainder of the distance she power-walked at 8 km/h. For how many kilometers did she sprint and for how many did she power-walk?

20. Otis, Tung Doy, and Ishwar are planning a camping trip on which they will be carrying the following kinds of shared items: (a) food (including cooking utensils), (b) water, and (c) camping gear. At some time during the trip, Otis, who can carry 16 lb of shared items, will be carrying all the food and water. At another time, Tung Doy, who can carry 15 lb, will be carrying the water and the camping gear. At a third time, Ishwar, who can carry 13 lb, will be carrying the food and the camping gear. How many pounds of each kind of shared items can they bring?